LEICA CL

Battery: 1 ea. PX13

Fig. 1—top cover removed

Fig. 2—bottom cover removed

Fig. 3—adjustment cover removed, rewind side

Fig. 4—front plate removed, shutter charged

Fig. 5—front view, speed knob removed

Fig. 6—photocell unit, back view

Fig. 7—wiring pictorical, meter board

ADJUSTMENT LOCATIONS:

Alignment, shutter-speed indicator	A
Rangefinder, horizontal shift	B*
Rangefinder, vertical shift (setscrew)	C*
Rangefinder, secondary-image focus	D
Meter housing, freedom of movement	E
First-curtain latch, engagement	F
Fast speeds	G
Wind clutch	H
First-curtain brake	I
Meter, high light	J
Meter, mid range	K
Meter, low light	L
Battery test	M
Travel time, second curtain	N
Travel time, first curtain	O
Slow speeds	P
Galvanometer, rotational position	Q
Rangefinder, infinity	R
Rangefinder, 1 meter	S
Frame-line mask	T**

*reach through clearance hole in top cover

**reach through clearance hole in front plate

ADJUSTMENT VALUES:

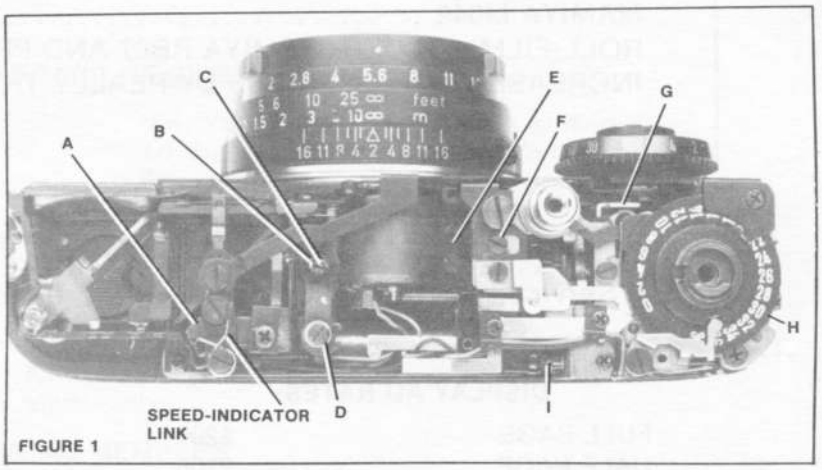

FIGURE 1

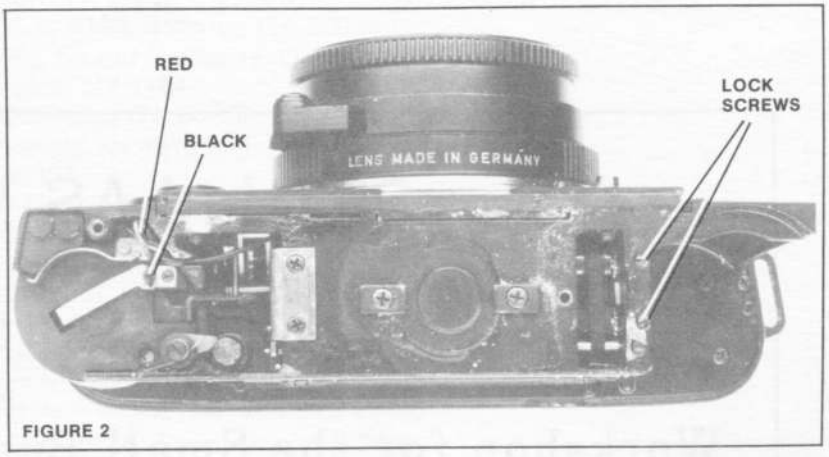

FIGURE 2

Curtain-travel time: 10ms (20mm distance), 10.6ms (21mm distance)

Note: To adjust curtain speeds, loosen the lock screws at the bottom of the camera, Fig. 2. Then push in and rotate the appropriate tension adjustment, Fig. 3 (clockwise to increase tension).

Flange-focal distance: 27.95mm (flange to pressure-plate rails)

Battery test: Set ASA 100, 1/60. The meter needle should move to the metering-index cutout in the finder when you push the battery-test button at the front of the camera.

Battery-test needle: Set ASA 100, 1/60. The needle at the top of the finder should center in its cutout. Adjust with Q or by changing the position of the cemented cam on the meter housing. The needle, when visible in the top cutout, indicates that you can use the battery test at that combination of settings.

Metering-limits flag: Set ASA 400, 1/4 second. The red metering-limits flag should not be visible in the finder. Then set 1/2 second. The metering-limits flag should now move into the metering-index cutout to indicate an out-of-range condition. Adjust with Q.

Viewfinder mask: Installing the 90mm lens should shift the frame-line mask far enough to cover the 50mm frame lines and uncover the 90mm frame lines. With the 40mm lens installed, the 50mm frame lines should appear in the finder; the 90mm frame lines should be covered.

Rangefinder: Remove the plug in the top cover. Hold cam B and turn setscrew C to set the vertical alignment. Eccentric cam B shifts a nonmoving lens to make the same correction regardless of the focus distance. The adjustments on the rangefinder-control arm, Fig. 4, allow you to adjust the accuracy at different distances. If the rangefinder tracks properly throughout the focusing range, you can correct the horizontal alignment at infinity with B. To correct the tracking, turn the eccentric in the center of the rangefinder-arm roller (R) for infinity and shift the position of the rangefinder-control arm after loosening the nut for a close distance.

DISASSEMBLY HIGHLIGHTS:

Sequence:

1. back shell and bottom cover (long bottom-cover screw goes to back of camera near battery) — loose spacer under bottom cover at long-screw position, loose rubber cushion for battery terminal
2. top cover (held by release-button collar, wind lever, 1 screw, strap lug passing through slot in end of top cover) — release button and spacer at screw position loose
3. pressure-plate assembly (2 screws)
4. front plate (4 screws)
5. speed-knob assembly (2 screws)

   Note: Hold down the governor-control lever, Fig. 5, to lift out the speed-knob assembly.
6. disconnect spring and remove speed-indicator link, Fig. 1 (1 screw)
7. control bar for frame-line mask, Fig. 4 (2 shoulder screws) — loose compression spring under bar
8. rangefinder-control arm
9. stop plate for rangefinder-control arm (1 screw)
10. rangefinder assembly (2 screws — reach from inside film chamber, rewind side)

    Note: Be careful to avoid bending the meter needle while lifting out the rangefinder.
11. unsolder wires:
    —red and black from meter switch
    —green and blue from galvanometer
    —red and black from battery contacts
12. free wires from wire clamps, top of camera at wind side
13. remove wire clamp at rewind side (near curtain rollers)
14. disconnect photocell-release link from release shaft (fork on photocell-release link clips over flat on release shaft)
15. cock shutter

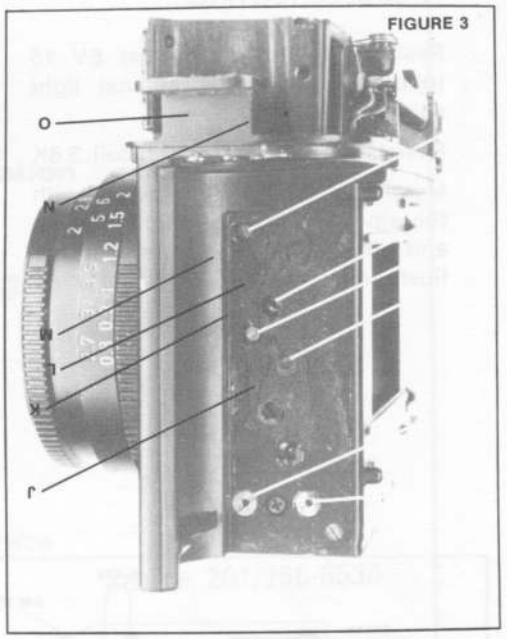

FIGURE 3

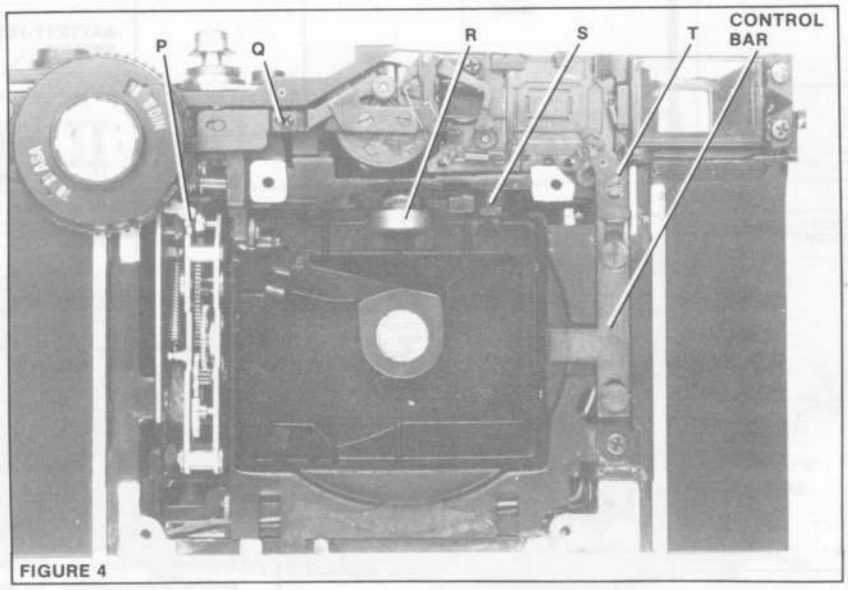

FIGURE 4

16. remove 2 crosspoint screws holding photocell unit (longer screw goes to top of unit)
17. lift out photocell unit, Fig. 6
18. disconnect and remove spring for slow-speed governor
19. remove slow-speed governor by spreading 2 brackets

    Note: You can remove the meter housing after disconnecting the meter spring and loosening the two meter-bracket screws. On reassembly, adjust the bracket position so that the meter housing rotates freely and the needle does not bind on the rangefinder mask.

Reassembly highlights:

1. Cock both the shutter and the photocell before replacing the photocell unit.
2. As you seat the speed-knob assembly, hold down the governor-control lever unit it seats on the edge of the retard-control cam. Then position the meter-drive link; the link passes through the fork in the speed-knob plate and rides against the cam closest to the plate. Finally, lift the high-speed control lever so that it rides at the top edge of the high-speed cam.

TROUBLESHOOTING:

Resistance of CdS cell at EV 15 (photocell unit held against light source): 280 ohms

Resistance of galvanometer coil: 3.8K

Meter switch: should be closed with the wind lever in the standoff position and open with the wind lever in the flush position

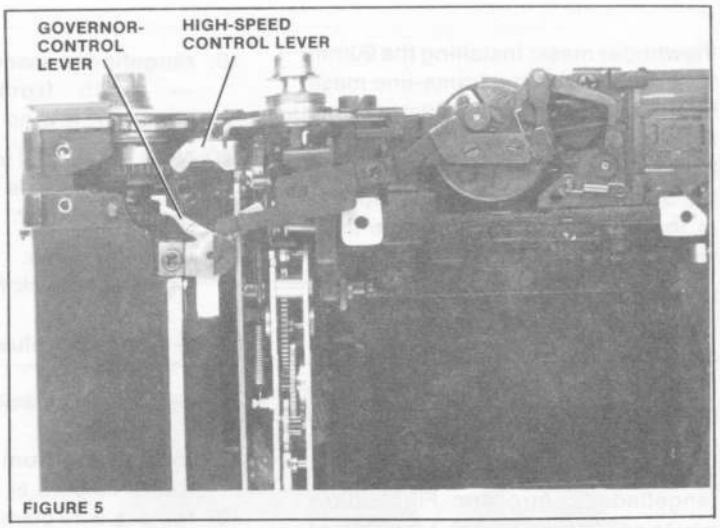

FIGURE 5

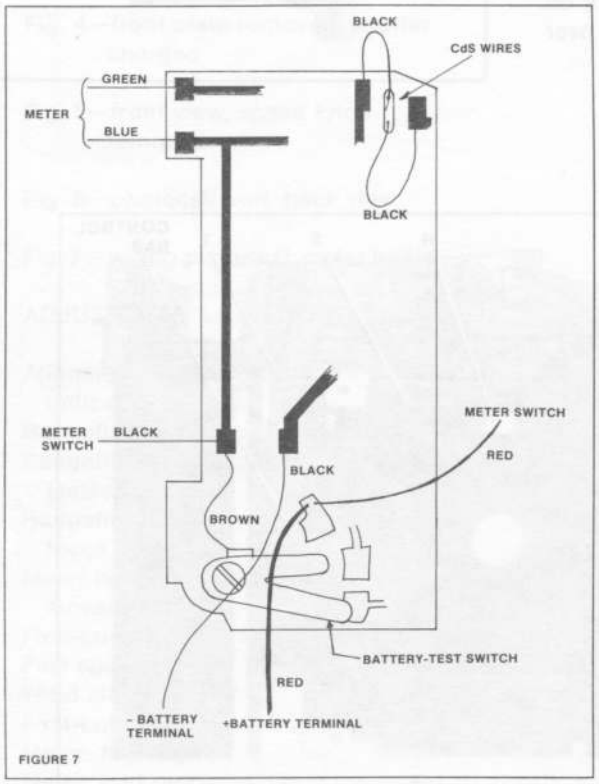

FIGURE 7

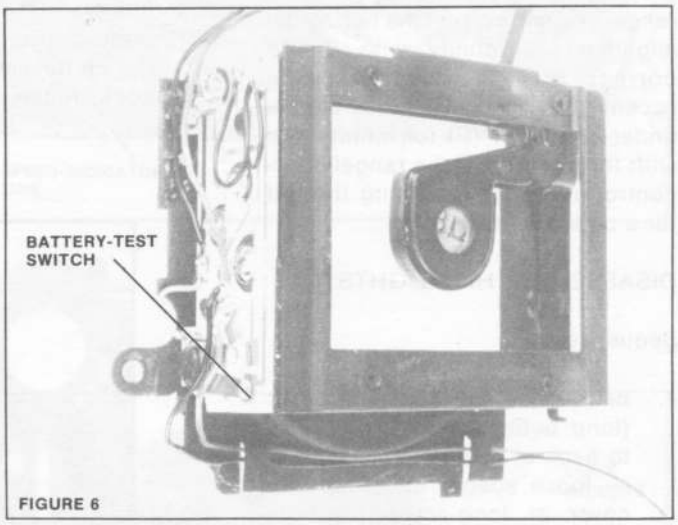

FIGURE 6

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